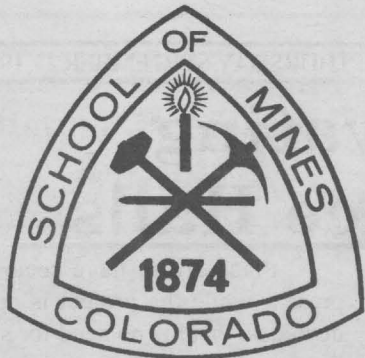




The Oredigger

The World's Foremost School of Mineral Engineering

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Issue 3



Photo By Chad Goerzen

No snow yet... "Buffalo Bill" checks out the SAE (Society of Automotive Engineers) clean snowmobile project on a sunny afternoon at the Celebration of Mines on Friday, September 3rd.

Nightmare on Elm Street

Break-ins are a rude awakening to School of Mines campus

Joe Malory

No one ever thinks things like this happen at CSM, but 12 students know differently now.

Mines became the victim of an unfamiliar occurrence, crime. In the Weaver Towers parking lot on Thursday, Sept. 2, 12 vehicles were broken into.

In the early morning hours between 1:30 and 2. on Thursday, rocks were thrown through the rear

quarter panel windows of 12 cars in an attempt to steal belongings inside.

Of the vehicles, two were deserted by the criminals after car alarms were set off, and the other 10 cars had items stolen. Items stolen included eight car stereos. Glove boxes were also rifled, probably in an effort to find the detachable faces belonging to the stereos. The total damage estimate for the

crime is reported to be about \$3000, police report.

Mines police are working in connection with the Golden and Lakewood police departments and the Colorado Bureau of Investigation to untangle what appears to be web of related events throughout the Golden and Lakewood area.

A description of the car used in the robberies was obtained from a witness; however, the vehicle was found abandoned and reported stolen.

Evidence found in the abandoned vehicle, tied with evidence in the Mines lot, has been linked to other break-ins and two other stolen cars in the Golden area, police say.

Police have no suspects yet, but when they do, they will be charged with felonious first degree criminal trespassing.

According to Officer Dennis Page, break-ins on the Mines campus are rare, usually occurring about every other year.

Advice to Students

- Lock all doors and roll up windows every time you leave your vehicle
- If possible park where you can see your car from your room
- Park in a well lit area near other cars
- Take all valuables out of your vehicle including change in the ashtray or books (people in a college area tend to realize the value of books)
- Take your stereo face inside with you rather than leaving it in the glove box
- Report any suspicious activities to campus security (303-273-3333) or the Golden police

President Bickart Clears up Construction Confusion

Agata Miodonski

Standing at Dr. Theodore Bickart's office window on the third floor of Guggenheim, one can look out over the Colorado School of Mines campus. Looking out this window and being out and about on campus, the hints of coming changes abound. The CSM campus has gone through several changes in recent years, and will continue to be renovated in the years to come. Dr. Bickart, president of the Colorado School of Mines, gave an explanation of all the major changes that have been happening, and will be happening, around campus.

Perhaps the biggest change to come is the renovation of the old county courthouse located to the west of the Hall of Justice. This building on the southeast corner of campus has been purchased by the school and will soon be demolished. In its place a building will stand to house much needed extra classrooms. These classrooms will range in size from medium to large, and sketches show plans for a new auditorium to be built on the northwest side of the new building. The sketches aren't final, and Dr. Bickart is negotiating the issue of natural light on the top floor. This project is being funded by the state.

Another issue that has come up recently is what changes and renovations will be made with the money from the bond issue that was sold five months ago. Many people have already heard rumors of what construction will be going on with this money.

The first area that will receive attention is the residence halls. All four residence halls (Randall, Bradford, Thomas and Morgan) will be renovated in the coming years.

The next area for improvement will be the Student Center. This new area will house admissions (currently located in Weaver Towers), student development (currently in a small house on Maple Street), financial aid, the registrar, cashier, and career services (all of which are in Guggenheim). This change will not only create more space in Guggenheim and allow other organizations new office space, but it will also accommodate students by making all of these necessary stops in one area. Students will not need to trek across campus from the registrar's office to admissions and back to the cashier. The addition is planned for 18 to 20 months from now. The second floor of the student center will also see an addition - a new ballroom. It will be one-and-a-half times the size of the current ballrooms.

Also with the money from the bond issue, there are plans to build two more housing units at Mines Park, two new fraternities, and to refurbish the Sigma Nu house. The house will be converted to a co-op unit, meaning that the administration will be in charge of maintenance and will rent the unit to students.

Along with these large projects in store in Mines' future, there are several other small renovations that will be happening. For example, the potholes that students have been complaining about north of the ATO house and in front of the Beta house on West Campus Drive will finally be fixed. These repairs are expected to be completed this week.

For more information, see related stories on page 2.

A Reminder From President Bickart...

Agata Miodonski

Dr. Bickart, president of the Colorado School of Mines, would like to remind Mines students of a few very special upcoming events.

The first event is the celebration for Mines' 125th Anniversary. The actual date of the anniversary was February 9, 1999, but because this was well into last year's spring semester, this academic year will be celebrated as the 125th academic anniversary. Composer David Ackerman was asked to write a piece especially for this event. The commissioned piece is entitled "Commemoration Overture." On October 24, in Bunker Auditorium, a live orchestra will perform the piece for the first time. This promises to be a memorable event, so mark your calendars.

Another reminder is about the Quilt Museum. There is a new quilt being displayed, which speaks of the tradition of this area by displaying a typical mining country on an oval shaped quilt. Now, the community is looking for a quilt to embody the counterpoint to this work of art - a piece that will show Golden looking to the future instead of the past.

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Something new in Store for Students at Homecoming

Jessica Lolley and Erin Kock

The weather is getting cooler, the leaves are changing color, freshmen seem to have mastered their schedules, and it can only mean one thing- homecoming is quickly approaching.

This year, homecoming will be the weekend of Oct. 21-23. The theme, in honor of the 125th anniversary of the Colorado School of Mines, is "Engineers for a 1,000 Years."

This year's celebration promises to be a little different from celebrations of years past. Last year's homecoming events were reevaluated by a committee comprised of representatives from the alumni association and various athletic and student organizations.

The committee made goals for homecoming, such as more student involvement, more interaction between alumni and students, and the recognition of all sports. These objectives were then worked into the new events of homecoming.

New activities include a barbecue and chili cook-off on Friday evening, an "all you can eat pancake breakfast" Saturday morning and the

"After Game Event" Saturday night.

The "After Game Event" is intended to replace the traditional dance. Tentatively, there will be a faculty dunking tank, a fortune-teller and other carnival type events as well as food and beverages being served.

The homecoming committee still needs help from individuals as well as organizations. To help out with homecoming, students are encouraged to attend the homecoming meetings held Tuesdays at 5:30 p.m. in the Student Center or to stop by the Mines Activity Council (MAC) office in the Student Center.

Organizations are invited to help out as well, although they do not need to participate in every homecoming event. Traditional IM events such as tug-o-war, human pyramid, and bat races need teams

of about 10 people; Queen and Beast nominations require only one person for each position; and the parade can include as many or as few people as you like. Parade entries are not limited to floats as organizations can also have people in costume walk or drive vehicles, or anything else you can come up with. Remember, the theme this year is "Engineers for a Thousand Years," and parade entries should reflect the history of Mines or where Mines is headed in the future.

To submit nominations, team entries, and parade entries, the packet distributed Tuesday, Sept. 21 needs to be returned by Oct. 5 to the MAC office.

Questions or comments can be e-mailed to Jessica Lolley, 1999 homecoming chair, at Jolley@mines.edu.

Homecoming Schedule of Events

Thursday, October 21		
-Volleyball game (gymnasium)		7:00pm
Friday, October 22		
-Traditional Events (IM Field)		4:00pm
-BBQ/ Chili cook-off (IM parking lot)		4:30pm
-Pep rally followed by hypnotist Frederick Winters (Bunker)		7:00pm
-Bonfire (clay pits)		9:00pm
Saturday, October 23		
-All-you-can-eat pancake breakfast (location TBA)		8:00am
-Parade		10:30am
-Football game (stadium)		1:00pm
- "After Game Event" (Field house)		4:00pm
-Volleyball game (gymnasium)		6:30pm

Parking Woes on Campus

Matthew Crill

Finding parking spots on campus has been increasingly difficult for students this year due to the large amount of construction going on and upcoming construction projects may make this task even harder.

A new technology building is scheduled to be built on the parking lot east of Alderson Hall at the old courthouse site. Also, a new addition will be made to the Student Center taking up the parking lot between the Student Center and the dorms.

While the total amount of parking spaces that will be removed due to these projects is currently uncertain, the estimates range from 60 to 100 spaces.

Most students have realized and have had to deal with the limited amount of parking spaces on campus. Public Safety has received many complaints from students and faculty concerning the parking problems.

"I was late for class and I couldn't find a place to park" is a frequent comment Dennis Page, an officer with Public Safety, receives from students. To combat the park-

ing problems, Officer Page said, "We need to look at a change of attitude in our parking habits such as arriving a little early and not trying to park right next to our classes."

Officer Page also noted that some spaces are regularly available in the parking lot east of the Hall of Justice, along West Campus Road above the dorms, and along Washington between 17th and 18th street. While these areas will soon fill up when construction begins, they are alternatives to some of the parking areas commonly used on campus.

When asked about the possibility of adding additional parking, Dean Cheuvront stated that they "are waiting to see what the impact of the construction on the

parking problems will be." The main difficulty with adding more parking is finding suitable locations and funding.

According to Dennis Page, "no direct state funds can be used for parking." Instead, the \$12.50 assistance fee that every student pays is used for

parking improvements.

Even with funding, suitable parking lot sites are difficult to obtain due to the limited space on the campus. Currently, short-term parking solutions are being looked at but few answers have been found.

Instead, students will have to park further away in some of the locations along Washington or West Campus Road until the construction ends or alternative solutions are found.

Renovating Residence Halls

Joe Malory

Mines is about to undergo a much needed facelift in the area of student housing. Starting at winter break, the on-campus living will be drastically improved, as part of a two-year, \$7.8 million bond issue being directed by Bob Francisco.

This Christmas, Weaver Towers will be getting new home furnishings in its stocking for the first time since the building was constructed in 1979.

This renovation is expected to cost \$160,000. Among the furnishings Weaver will receive are new carpeting in the common area, curtains, desks, chairs, and sofas. Eventually new carpet will also be added to the individual bedrooms.

Renovations will occur while students are out for winter break when the dorms will be empty.

Bob Francisco has been planning for this project since last year, but due to a "scheduling nightmare" plans have been pushed back so that the entire project can be completed at one time.

Plans are to have security present while the project is conducted so there is no need for students to put items in storage or move everything out.

For the traditional halls, Morgan, Thomas, Randall and Bradford, there is a much larger scale project at hand. Starting in May, major renovations will take place including asbestos removal, window replacement, new carpet, bathroom remodeling, hot water tank replacement and major mechanical and electrical upgrades.

Each hall will take about six months to update, for a total of two-years. However, this will displace 80 to 100 students who will not be able to live in the dorms during this process.

The solution is to keep the guaranteed spaces for incoming freshmen and disallow returning students from living in on-campus housing facilities.

Alternative housing ideas for returning students are Mines Park and Prospector Village.

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Art Exhibit Survey

- (1) Would you be interested in participating in a juried Mines Art Exhibit? CSM students, faculty, staff and spouses would be invited to submit work. What type of art would you submit (exp. painting, sculpture, photography)?
- (2) Would you be willing to serve on a committee to plan the exhibit and a reception?
- (3) Would you attend the reception and/or visit the exhibit?

Please respond to Marsha Konegni in the Office of Public Affairs at 303-273-3326 or mkonegni@mines.edu.

Alcohol Policy Sessions

Alcohol policy education sessions have been scheduled for this semester for all groups that sponsor functions that serve alcohol. The policy states that all organizations must attend an alcohol policy education session yearly. Currently, four sessions are scheduled. They are: Sept. 24 at noon in the Student Center, room 234; and Sept. 28 at 4 p.m., Sept. 29 at 4 p.m., and Sept. 30 at 4 p.m. in the Student Center, Ballroom B.

These sessions are mandatory. Until the educational session is completed by a responsible member of your organization, your group will be ineligible to host a function with alcohol.

For additional information, please contact Cairn A. Lindloff in the Office of Student Activities. (clanders@mines.edu)

New Art Work Adorns Coolbaugh Hall

Belinda Butler-Veytia

Notice anything new around campus this semester? If you've been down to Coolbaugh at all, surely you have seen the newest art additions to Mines campus.

On the outside of the building, a large back marble map shows the building's exact position from space. Along the corridor just inside the building, several panels line the floor in front of Coolbaugh 209.

Why Coolbaugh and why this type of art, you might ask. By law, the funding for this and other similar projects comes from a portion of construction budgets each time a building is erected or renovated on any state property in Colorado.

Currently this legislation, called Art in Public Places, is governed by the Colorado Council on the Arts. Since the Coolbaugh expansion and renovation took place in 1994, two art projects, including the newest addition, have been funded by 1 percent of the original construction budget.

Ten thousand dollars was used to seek and purchase the six panels of metal art in the atrium.

patterns of living things: veins in a hand, the human brain, polymers and even jackalope antlers. One panel highlights the research of dendritic polymers by Dr. Knauss of the chemistry and geochemistry department.

Dr. Ross says that he likes the new art, especially the marble map outside the building. "I think that it gives the building an identity. Until now there has been both the Coolbaugh Building and the Coolbaugh House. Several times,

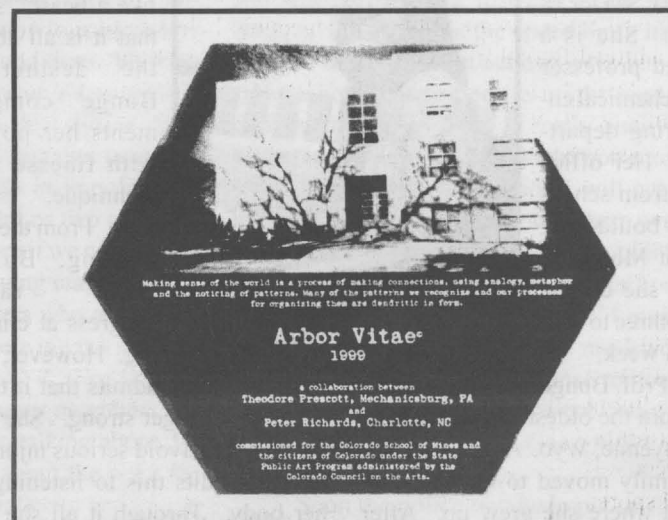


Photo by Joe Malory
The title plate, "Arbor Vitae," located near the entrance to Coolbaugh Hall, shows pertinent information for the artwork

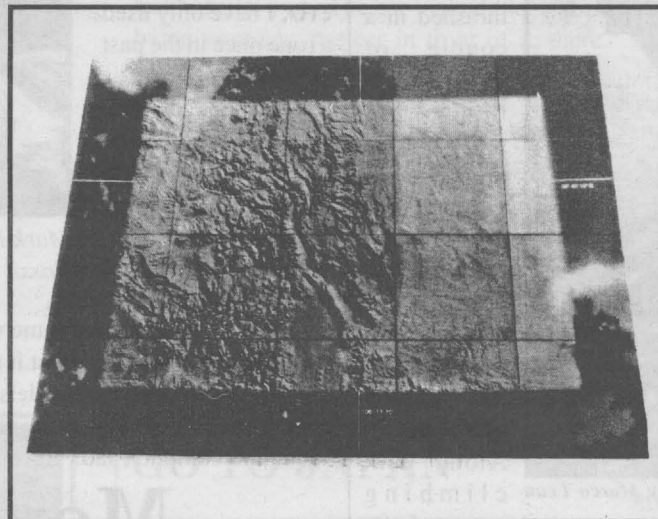


Photo by Joe Malory
The shaded relief map of Colorado, on the front wall of Coolbaugh Hall, showing its exact location

The budget for the map and floor panels consisted of nearly \$80,000. Each project has included an extensive search process for the best artists and ideas.

Last year, a committee made up of several individuals including Dr. Philippe Ross, chair of the environmental science and engineering department, Dr. Steve Daniel, chair of the chemistry and geochemistry department and Paul Leef, an architect employed by CSM plant facilities, read more than 100 submissions by artists from all over the US. The artwork, designed by Theodore Prescott of Mechanicsburg, Pa., and Peter Richards of Charlotte, N.C. ties into one central idea, the dendritic nature of life and living things.

The map of the area displays the branching effects of rivers and streams over land. Each panel inside represents different branching

someone has come rushing into the office, late for some meeting, wondering where the meeting was. After talking to him for awhile, I realize he's looking for the Coolbaugh House, not the Coolbaugh Building."

The two structures now will not only differ in size, but also in exterior decor.

Other new artwork will appear soon at Hill Hall and the to-be-constructed classroom building.

If you would like to submit ideas, please contact Plant Facilities on how to contact architect Paul Leef. Since this building will not house a department, students will be the primary tenants.

When the committee is formed, one or two students should be allowed to help balance the committee giving student body input. So, keep your ears open for news about the Art in Public Places soon to come to Mines campus.

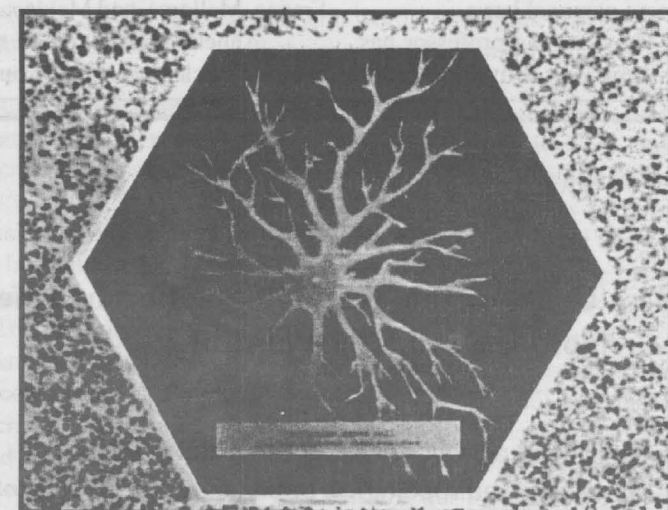


Photo by Joe Malory
This tile is one of many similar tiles representing the theme of branching, embedded in the floor of Coolbaugh Hall

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Professor Profile

Editor's Note: This column features professors with the intention of humanizing the people we may only know as lecturers or researchers.

Marco Leon

Most professors can be stereotyped quite easily. The same cannot be said for Professor Annette Bunge. After all, one wouldn't think of someone on the cover of *Rock & Ice* magazine as a Mines professor.

Annette Bunge is an avid climber who has been at CSM for 18 years. She is a tenured professor in the chemical engineering department. Her office away from school is the bouldering area at Morrison, where she can be found three to four days a week.

Prof. Bunge was born the oldest of six children, in Cheyenne, Wyo. At the age of 3, her family moved to Omaha, Nebraska where she grew up. After attending the University of Oklahoma and the State University of New York at Buffalo, Bunge received a Bachelor of Science in chemical engineering. She then went on to earn a Ph.D. in chemical engineering from the University of California at Berkeley.

In 1981, Bunge came to CSM. She likes the school, its location, and its highly motivated students. The professor is currently teaching fluids and transport phenomena. At the beginning of each semester, she has her students introduce themselves to her in the form of an essay. The students also receive one from her. Bunge feels that the students will work harder for someone they know on a more personal basis.

The climbing professor has always been very active. She runs

marathons, skis, backpacks, kayaks, and climbs. Bunge, who was the CSM ski coach, began climbing as a tenured professor in her mid-30s. She actually started climbing to do more technical hiking. Well, Bunge got a little sidetracked and is now so busy climbing that she does few technical hikes.

Bunge makes climbing look like ballet on the rocks. She loves climbing because of the sensations it gives. The professor who, "cranks like a beast," says that it is all about the aesthetics. Bunge compliments her power with finesse and technique.

From the beginning, Bunge made rapid progress at climbing. However, she admits that it took her awhile to get strong. She has been able to avoid serious injuries. Bunge credits this to listening to her body. Through it all she has seen the surge of women climbers.

The professor who has red-pointed 5.12Cs likes bouldering because it is a lot quicker than climbing with ropes. She says, "You can get thrashed in a couple of hours." Bunge has worked on problems and moves for years. She feels that if you throw yourself at it for long enough you'll get it. Along with climbing many of the

most difficult problems at Morrison she has made many variations of her own (Annette's Variations Of: AVO's).

Bunge, who rock climbs all over Colorado, has also been climbing around the world. Trips have taken her to Alaska, Italy, Germany, France, Mallorca, and Mexico.

Annette Bunge can be seen at a cliff or classroom near you.

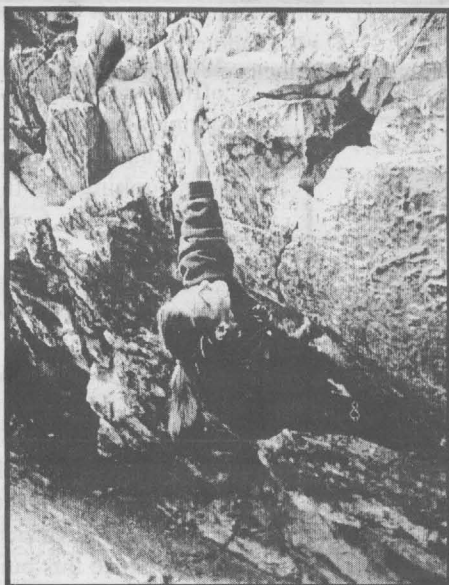


Photo by Marco Leon

Bouldering Colorado



A view of the cliffs behind Morrison, Colo.

Photo by Chad Goerzen

An Insider's View of Bouldering

Mark Pavol

As I sit in class stressing about homework and deadlines, I notice the clock. In ten minutes I will be headed to Flagstaff Mountain, in Boulder, for a little bouldering. Knowing this helps to maintain my sanity though the rest of class.

I have been an avid rock climber for more than seven years now, and try to climb a least three to four times a week. However, I have only used a rope once in the past year. Bouldering is climbing on rocks that are small enough so that a rope is not necessary. It is climbing in its purest form, nothing but you and a piece of stone.

Bouldering provides me with many things in my life. First it provides physical activity that lets me get outside and away from the classroom and computer lab. Second, I

find bouldering to be a social activity, it is nice to go out, relax with friends, and meet new people.

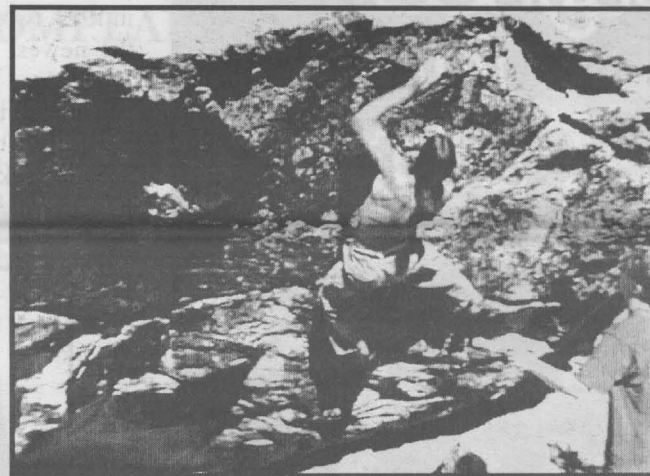
A lot of people say they like climbing because you get to be high

want. If anyone believes bouldering cannot be scary or dangerous, I will take them out for a session. And if anyone believe bouldering cannot be safe, I will take them out for a session.

The best way to learn how to boulder (or climb) is to find someone who will teach you. With any luck, this will be easy once the CSM Climbing Club is operational. However other options exist, both the ORC and the Golden Community Center offer classes.

Once you have mastered the basics, the best way to get good is to climb as much as possible. Go out and climb and don't be afraid to ask people for advice or a spot. Some people are jerks, but 95% of the time people will be glad to help you out.

Remember, "Only dopes use ropes (go bouldering)."



Mark Pavol at Unaweep, Colo. This route is just south of Fossil Rock.

Photo by Justin Gregg

Mexican in Morrison

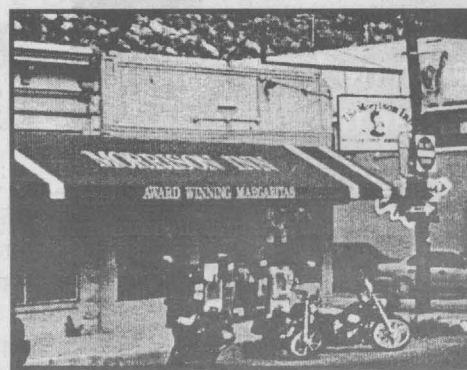
David Bonfoey

The Morrison Inn is nestled in the small mountain town of Morrison just south of Golden. Located at the intersection of Highway 8 and 26, the small Mexican restaurant was built in the early 1800s. Although it began its history as a pharmacy and ice cream parlor, it was turned into The Morrison Inn in 1979.

Upon first sight, the Inn sets a friendly and welcoming environment with cactus painted walls, authentic memorabilia, and a friendly looking "hombre" with a motorized head and sunglasses. Any restaurant can throw up antiques and garage-sale junk and call themselves "Uncle Moe's," but a restaurant is really only as good as its food.

Any seasoned college student knows that free is good. So when chips and salsa are presented, give them a try. For the faint of heart, it may be necessary to wait for drinks, as the salsa is slightly on the

hot side and not very chunky. The chips were pleasantly warm and did the salsa justice. Now for the most important part, the margarita!



The Morrison Inn Photo by Chad Goerzen

Taking the advice of the waitress, one very large margarita on the rocks was ordered (more than 30 ounces to be exact!). They also come in a 16-ounce size, but to get a real idea you have to make sure not only the first sip is good, but many sips! It was definitely worth it. It had a nice lime taste, not too

strong, but good kick!

After a quick delivery of the meals, several things were noticeable. The first thing is that it was actually good. This was not another gimmick where guys in speedos jump from a 12 foot cliff into a kiddie pool and charge you \$15 for the all you can eat refried beans and day old sopapias (Casa Bonita for those of you new to the area!). The smothered burritos had some real zip to them, the tacos were flavorful and crunchy, and there was enough to feed a small army. The only lackluster element was the beans and rice. The rice had some flavor, but lacked any point to being eaten. The beans were also mediocre, having little flavor or appeal.

With good service, great food, and decent prices (\$5 to \$10 a plate), The Morrison Inn was definitely worth the trip. Just remember to go hungry and have a great time!

Dr. Daniel Cérézuelle

1999-2000 Hennebach Visiting Professor will lecture on:

"The Costs of the Technologization of Life from a European Point of View"

First Lecture:

"The Experience of Beauty in Nature and its Anthropological Importance"

Thursday, September 30

12:00 Noon Student Center, Ballroom B

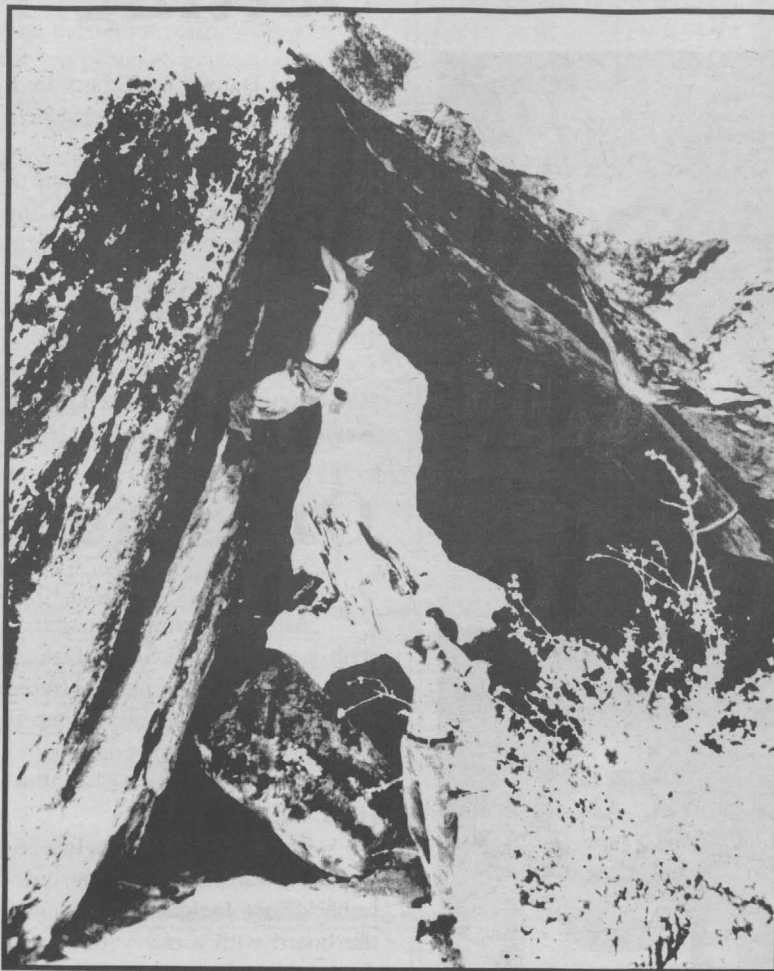
Climbing Club in the Works at CSM

Have you ever walked out of the Hall of Justice, looked up at the sides of it, and wanted to climb to the top? Don't have anyone to do this with? No support from your friends? Soon you will be able to find refuge among fellow climbers.

A Climbing Club is now in the works at school. Dr. Reimanis has agreed to advise it. The Climbing Club is being put together to enhance the climbing possibilities of students and teachers at CSM. It will also serve as a way for beginners to get into the sport.

The club plans on taking weekly climbing trips throughout the fall semester. All are welcome to join. The first trip of every month is going to be set aside for those especially new to the sport. For the more experienced, the club will serve as a way to meet new climbers.

For further information on the progress of the club, as well as people to climb with, please contact Matt Krugman by e-mail at mkrugman@mines.edu or by phone at 303-216-2362 or 303-271-3825.



Matt Krugman bouldering at Unaweep, Colo. with two spotters below.

Photo by Justin Gregg

Colorado Climbing Areas

Golden is prime location for climbing. Take advantage of this fact. Any climbing store will have *Rock Climbing Colorado* and *Colorado Bouldering*. These two books cover the whole state including Clear Creek Canyon, North Table Mountain, Eldorado Canyon, and the entire Boulder area. Some of the highlighted bouldering areas are Morrison, Flagstaff (up Baseline road in Boulder, Colo.), Mt. Sanitis (up Mapleton in Boulder, Colo.), Eldorado Canyon, Horse Tooth Reservoir, and Carter Lake.



Anne McDaniel proving this isn't just a man's sport

Photo by Justin Gregg

Hints on Heights

Joy Kaylor, RN

Adapted from "Altitude Sickness," by Bruce Paton, M.D., Colorado Mountain Club July-August Newsletter

If you're hiking high this fall or skiing high this winter, some awareness and precautions will help ensure a day of fun. Even starting from an altitude of 6,000 feet, e.g. Golden, ascending to 10,000 feet, e.g. mid-mountain at Vail, can result in symptoms of altitude sickness. Symptoms may range from irritating, but not dangerous, to life threatening.

Common, minor symptoms include headache, fatigue, shortness of breath, and decreased appetite. Increasing fluid intake prior to and during the first 48 hours at altitude helps prevent these problems. Go easy on alcohol and

caffeinated beverages, as they dehydrate you. Headache can be treated with acetaminophen, ibuprofen, or aspirin. Symptoms usually resolve in 2-3 days.

A more serious condition is caused by fluid collecting in the tiny air sacs of the lungs where oxygen is normally transferred from air to blood. You will notice increasingly severe shortness of breath, cough, and blue lips and fingernails. If these symptoms occur over just a few hours, it is imperative that you get to a lower altitude immediately. There is medication which may alleviate symptoms. The best prevention is a slow ascent, allowing time for the body to acclimate. Also follow the adage "climb high; sleep low."

The most severe and dangerous altitude-caused condition results from tissue fluid leakage in

your brain. The affected individual is usually unable to help himself, as headache is severe, coordination is so poor that walking may be impossible, and thought processes are impaired. This person must be immediately removed to an altitude low enough to reduce symptoms. If oxygen is available it should be used.

Some people are exquisitely sensitive to changes in altitude. They can hike to 13,000 feet several times every summer, but if they go higher, they develop altitude sickness. These folks are usually aware of their limitations. The scary situations are those in which a person who has been at high altitude without problems previously, develops severe symptoms without warning, or symptoms in people who have never been at height.

Be attentive. Listen to your own body. If your friends are affected, other than those very mild symptoms of headache and fatigue, insist that they return to a lower altitude.

ADRENALINE RUSH

Editor's Note: This column is dedicated to featuring stories and descriptions of events or local attractions that have the potential of giving you an adrenaline rush. A wide variety of topics will be covered which perhaps may interest the reader in partaking.

Jonathan Buczkowski

Someone watching the Sylvester Stallone movie "Cliffhanger" may think that it just takes strength to climb a mountain. This is a major misconception of the sport. In this sport, technique and knowledge out way strength. Most climbers are not bulky like "Sly" but are more tone and cut with enough strength to efficiently move around on the rocks with finesse and grace. Any additional muscle is just extra baggage. The following describes different types of climbing and what it takes to do so.

Top Roping is what most climbers entering the sport start with. This is where the climber is tied into a rope which runs up through a device at the top of the climb and back down to another person known as the belayer. The belayer keeps the rope taught in order to "catch" the climber if he/she falls. Once at the top the climber is lowered down. The climbs are ranked for difficulty from 5.0 (extremely easy) to 5.14 (nearly impossible). Rock Climbing Gyms allow climbers to do this year round indoors with molded holds.

Adrenaline Rush:
Low to Moderate
Level:
Beginner to Expert
Safety Risk:
Low to Moderate
Recommended Gear:
Rope, harnesses, belay device, climbing shoes, chalk, top rope device

Sport Climbing is similar to top roping in that the climber still has a belayer but the rope is not run up to the top of the climb. Instead, as the climber ascends the climb he/she clips the rope into preset bolts and carabiners. The belayer keeps the rope taught to minimize the distance the climber falls. The climber can fall at least twice the distance to where the rope was last hooked in. Once at the top the climber is lowered down.

Adrenaline Rush:
Moderate to High
Level:
Intermediate to Expert
Safety Risk:
Moderate to High
Recommended Gear:
Rope, harnesses, belay device, climbing shoes, chalk, sport carabiners, preset bolts

Traditional Climbing (aka Trad Climbing) is the next type after sport climbing. The difference is that there are no preset bolts. As the climber ascends he/she places his/her own devices on the face of the climb to clip the rope into. Once the climber reaches the top, he/she can be lowered down and remove

the devices or the belayer can climb up removing the devices while the first climber belays. Both climbers then can climb higher or rappel down.

Adrenaline Rush:
High to Very High
Level:
Advanced to Expert
Safety Risk:
Moderate to Very High
Recommended Gear:
Helmet, rope, harnesses, "rack" filled with "pro" (devices to hook onto mountain) belay device, climbing shoes, chalk

Ice Climbing is like Trad Climbing but done in on rock faces with winter conditions. The devices are hooked into ice that is not always reliable or predictable.

Adrenaline Rush:
High to Extremely High
Level:
Advanced to Expert
Safety Risk:
Very High to Nuts
Recommended Gear:
Helmet, rope, harnesses, "rack" filled with "pro" (devices to hook onto mountain) belay device, crampons (spikes for boots), two ice axes, ice screws, winter clothes and boots

Solo Climbing is for the insane. This is where no ropes or safety devices are used. Instead the climbers rely on their confidence and mental concentration. Some go to the extent of timing themselves.

Adrenaline Rush:
Insane
Level:
Expert
Safety Risk:
Extremely High to Are you High
Recommended Gear:
Chalk, shoes, gonads

Bouldering is similar to Solo Climbing but it is much safer. No ropes are used but the climber usually is not more than 10 feet off the ground. A person Bouldering focuses more on improving technique. The climbs range from horizontal traverses to loops. They are rated from V0 to V14. The climbs are practiced over and over until one masters the moves like a game of Chess.

Adrenaline Rush:
Low to High
Level:
Beginner to Expert
Safety Risk:
Very Low to High
Recommended Gear:
Climbing shoes, chalk

Buildering is urban climbing. Pick a building and climb.

Adrenaline Rush:
Moderate to High
Level:
Beginner to Expert
Safety Risk:
Moderate to Very High
Recommended Gear:
Running shoes

Orediggers of the Week

Geoff Streit

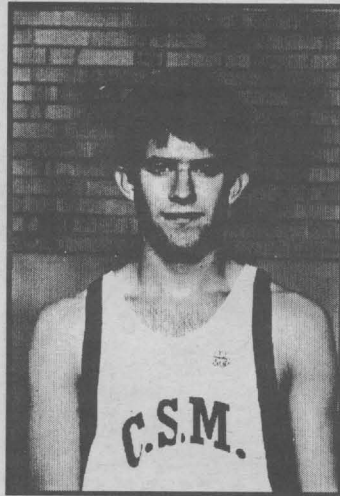
Junior
Cross Country
Los Alamos, NM
Los Alamos High School

In the Denver University Cross Country Invitational on September 18th at Kent Denver High School, Streit finished first among all men and led the CSM men's team to a first place finish at the meet.

Streit, who finished with a

time of 34:26, also saw teammates Patrik Ryham, Kevin Donohoe and Todd Hund finish fourth, fifth and eighth, respectively, in the winning effort.

A Petroleum Engineering major, Streit has twice been named to the Dean's List.



Rachel Krabacher

Sophomore
Cross Country
Grand Junction, CO
Grand Junction Central High School

In the Denver University Cross Country Invitational on September 18th at Kent Denver High School, Krabacher finished fourth with a time of 20:45 as the CSM women finished second in team competition. Teammates Michelle Roberts (fifth), Misti Williams (seventh) also had stellar performances at the DU

Invitational.

One week earlier in Boulder at the Colorado University Cross Country Open, Krabacher again paced the women, finishing 32nd to lead the team.

A member of the Kayak Club and Alpha Phi Omega (publicity officer), Krabacher is a Geological Engineering major.



Cross Country Setting The Pace

The Denver University Invitational Cross Country Meet at Kent Denver High School last Saturday, September 18th proved to be one of the most successful for both the CSM men and women in recent memory.

Junior **Geoff Streit** finished first amongst all men and led the CSM men's team to a first place finish. **Patrik Ryham** finished fourth, **Kevin Donohoe** fifth and **Todd Hund**

eighth to pace the men.

The women finished second as a team as sophomore **Rachel Krabacher** – just ten seconds off of the pace of the winner – finished fourth overall. Even more, **Michelle Roberts** finished fifth and **Misti Williams** seventh.

The teams will compete at the Western State College Invitational this Saturday, September 25th in Gunnison, Colorado.

Oredigger Football

After beginning the season with a win against South Dakota Tech, the team has now suffered through two consecutive losses, with the most recent coming last Saturday, September 18th at Fort Hays State.

Fort Hays jumped out to a 26-0 halftime lead before freshman quarterback **Nate Jackson** got Mines on the board with a one-yard touchdown plunge. Freshman running back **Chris White** would go on to score on a 37-yard run midway through the fourth quarter, but Fort Hays offensive attack was just too overpowering and the Tigers won 54-15.

White finished with 64 yards on the ground while Jackson ran for 57. The top performers for Mines, however, were on defense. **Matt MacRostie** and **Brian Davis** (one forced fumble) both collected 11 tackles in the loss. Davis is currently ranked sixth in the RMAC in total tackles with 24 (15 unassisted). Even more, sophomore corner-back **Tolu Lasaki** is tied for sixth in the conference in passes broken up.

The Diggers will host the University of Nebraska-Kearney Lopers for Parent's Day this Saturday, September 25th at 1:00 pm at Brooks Field.

Volleyball Wins Two of Three

Head Coach Michele Harris' team has suffered through tough times thus far in 1999 but won two of three matches last week.

The ladies snapped a ten-match losing streak in Colorado Springs on September 14th by winning 3-2. During that match, sophomore **Coree Kammerzell** had 21 kills and committed only one hitting error as she finished the night with a .364 hitting percentage.

The women (3-11 overall, 1-2 RMAC) lost to a tough Regis Uni-

versity team two nights later at Volk Gym but rebounded with a three-game victory over Chadron State on Saturday night, September 18th. Freshman **Laurie Alzheimer** amassed 11 kills vs. Chadron while senior **Sabrina English** dished out 33 assists and came up with 11 digs.

Next home matches for the Lady Diggers will be on Friday and Saturday, October 1st and 2nd when they host Western State and Mesa State.

Mines Soccer

After beginning the 1999 campaign with a 2-0-0 record, the men have stumbled upon tough times and have now lost six consecutive matches and sit at 0-5-0 in the conference.

Junior **Marc Miller** has collected five goals and two assists through eight matches for a total of 12. Freshman **James Trask** has three goals, as well.

Next action for Head Coach Frank Kohlenstein's team will be at the West Texas A & M Tournament in Canyon, Texas from September 24th-26th. The men will then return home to host Colorado Christian University on Wednesday, September 29th at 7:00 pm at Brooks Field.

SPECIAL NOTICE!!!

EXPANSION OF GRADUATE STUDENT ELIGIBILITY FOR THE STUDENT HEALTH BENEFITS PLAN

Effective for the 1999-2000 Plan Year, GRADUATE STUDENTS enrolled for less than 7.0 semester hours are eligible for participation in the Student Health Benefits Plan.

---To enroll, please contact the Registrar's Office.

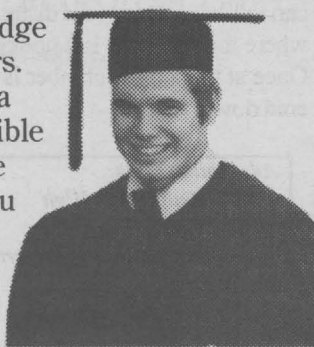
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McBride Students Travel to China

Belinda Butler-Veytia

This summer was not a good time for Chinese-American politics. The embassy bombing, the tenth anniversary of the Tiananmen Square massacre and human rights issues complicated relations between the two governments. Yet, in the midst of all this political chaos, seventeen students and two professors from Mines ventured East to take a glimpse at China. Each year, the Guy T. McBride Honors Program helps to send about twenty students abroad. Last year, the group went to South Africa, next summer the group will travel to Brazil. Each year it is a great adventure and this year was no exception. China, by far is the most exotic, strange and exciting place I have ever been.

We traveled north from Hong Kong to Beijing, stopping in Guangzhou, Guilin and Wuhan before traveling up the Yangtze River to see the Three Gorges Dam Project. This

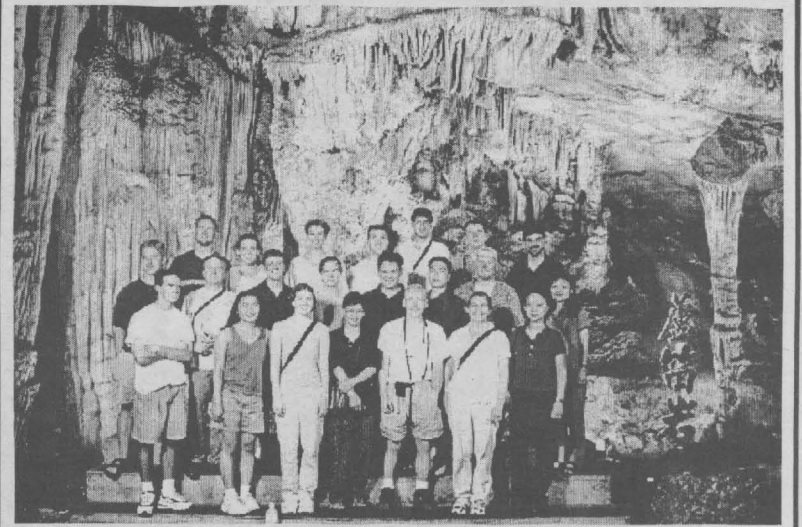
dam will be the largest water control project ever constructed. When finished, it is supposed to produce electric power equivalent to ten nuclear power plants. Our boat docked in Chongqing where we then flew to Shanghai. Following Shanghai we traveled to Xian, home of the terra cotta warriors.

To finish the group tour we traveled to China's capital, Beijing. Throughout the trip we encountered native foods, strange "western" breakfasts, many friendly people and lots of postcard vendors. We visited all of the major sites, with the help of CITS (China International Travel Service who loves to "make China green"), which included the Great Wall, the Forbidden City, the Jade Buddha Temple, the terra cotta warriors, Mao's Mausoleum, and many historic pagodas.

This trip was especially unique because of our immediate isolation from the natives. When traveling

through other parts of the world, Americans can fit in a little better than any foreigner can in Asia. People were fascinated with us. Many people asked to take their pictures with us. We were stared at constantly, not in a threatening way, but in a manner of curiosity. Some, who could gather up the courage, would come to practice their English with us. In this way, we were able to meet many native Chinese and become friends.

Overall, this trip was the most exciting experience of my life. I saw and did things that I never imagined I would do. I am sure all of us in the group would like to thank the McBride program for providing the opportunity to go, the wonderful guides that we had in each city, our beloved Isabelle (our national guide), and our two adventurous and witty professors, Dr. David Frossard and Dr. Willie Hereman.



Group picture of McBride students in the Reed Flute Caves, Guilin

Why is the M Red?

Jason Brucker

Some of you may have noticed that our M-blem has changed to red this week. No, we are not celebrating Christmas early. Blue Key and the Kiwanis Club of Golden have changed the color of the M to celebrate the memory of Denman S. Galbraith.

Galbraith originally came to Golden in 1946 to study geological engineering at Mines. Upon his graduation in 1949, he remained in Golden and soon became one of the community's most active citizens. Den, as he was more commonly known, was an active part of the Golden Kiwanis, the Foothills Art Museum, the Golden Landmarks Society, the Golden Civic Orchestra, and

the Golden High Key Club. He also remained a part of CSM through the Alumni Association, the Quarterback Club, the Centennial Planning Commission, and as an honorary member of Blue Key.

Den continued to be a part of the community until his untimely death in 1974. This week, 25 years after his death and 50 years after his graduation, the M will be red in his honor. On Saturday, September 25, the Kiwanis Club will host a wine and cheese fundraiser for the Denman S. Galbraith Memorial Scholarship Fund. The function begins at 7 PM in the Green Center. Tickets are \$10 and can be obtained by calling 303-277-1222.

Recycle That Can!

Chris Callender

President of Earthworks

On average, Americans throw away four pounds of garbage per day. Not enough to make you nervous? That adds up to 1,460 pounds per person per year, an awful lot of garbage that ends up directly in landfills. This huge influx of garbage is leading to high waste management costs and problems housing all this garbage. This problem affects each and every one of us. The growing need for landfills means that more open space will be turned into garbage dumps. Also, because of the growing cost of waste management, you will be forced to pay more money to your local trash company.

Luckily, we all have the capability of solving this huge problem. It's called the 3 R's (Reduce, Reuse, and Recycle). By taking simple steps in our daily life we all can make a huge impact.

Reduce- Try to buy and use goods with minimal packaging. This will ultimately create less waste. Can you buy your cereal in a bag rather than in the traditional box?

Reuse- Use those products you must buy at least twice. Like that plastic bottle you bought your water in. You can fill that up with more water, saving plastic, landfill space, and money.

Recycle- This is one of the easiest things you can do, especially here at school. Recycling benefits

everyone. By recycling a single aluminum can you save 95% of the energy it would have taken to make a brand new can. This means cheaper cans for industry and ultimately cheaper Coors for you. But aluminum isn't the only thing collected on campus, also collected is mixed paper. These bins are in all the buildings around campus. By recycling paper you can save trees and energy because recycling paper uses less energy than making it directly from the forest. Again, this will save you money. Everyone wins.

Currently, items like glass and plastic are less profitable to recycle and our not collected through the campus recycling program. There's not a huge market for these items right now, but they can still be recycled and turned into useful goods. By putting plastic and glass in the large roll-away bins behind the traditional dorms, they can be used to make fleece, construction materials, or other drinking containers.

In time, as the costs of landfills rise, it will make much more sense to put these items in the recycling bins.

Remember, the average person throws away ten times their own weight in trash every year. Ridiculous? Yes. A problem without a solution? No. Do your part- Recycle that can! For more information, contact the Environmental Health and Safety Office, or the Earthworks Club at earthworks@mines.edu.

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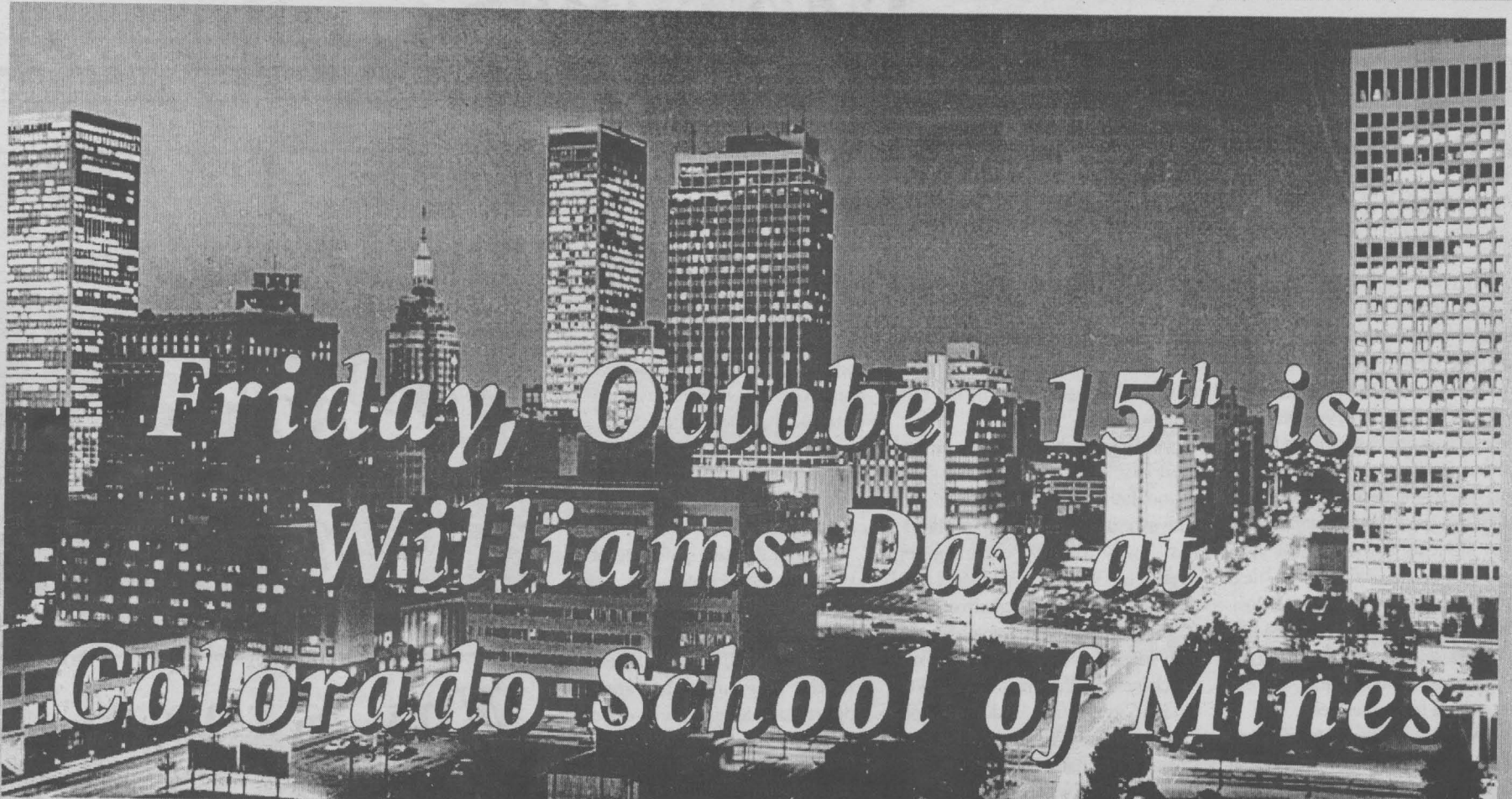
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Friday, October 15th is Williams Day at Colorado School of Mines

Join us for breakfast and giveaways in the Student Union from 8-10 am.

Come by for lunch and more giveaways at 12 pm and hear Colorado School of Mines alumnus, Howard Janzen, President and CEO of Williams Communications speak on the future of communications.

Sign up now in the Career Center for mock interviews conducted from 2-4 pm. Schedules are limited so act quickly.

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For more information about our company or job opportunities, visit our Internet site at www.williams.com.



Williams

Movie Commentary

AMERICAN BEAUTY SHOULD NOT BE CONFUSED WITH AMERICAN PIE

Life is no bed of roses. The film American Beauty banishes that adage forever. The film sets forth disproving that notion by painting a vivid portrait of one of suburbia's more dysfunctional families and searching for the beauty present even in their lives.

The story centers around the father, Lester, played by Kevin Spacey, who in the start of the film reveals that he will die soon, although he has been one of the living dead for some time. However, Lester, the narrator, does concede that he does not know when he will die or how.

The movie then unfolds the sequence of twisted events that eventually lead to his demise. When the time comes, Lester has his epiphany, he realized what truly matters in life and how amazing, beautiful and confusing it is. The film conveys its message using a "brilliant script", as one CSM student put it, and an uncanny use of props. This film is definitely a must see. (Warning Spoilers Ahead).

One example of the subtle symbolism is Annette Bening's character, Carolyn. She is a self-help tape listening, caked on make-up wearing realtor. Her driving force becomes projecting the "appearance of success." It is therefore fitting that she is constantly driving a shining silver Mercedes SUV; just one example of the excellent prop use in the movie.

The main symbol in the movie remains the rose. Roses are an image of beauty and sophistication. This is brought out in the film by how Carolyn carefully nurtures hers, because beauty and sophistication are so important to her "appearance." But, roses are also synonymous with decadence and hedonism, as Lester's adulterous fantasies show

the audience.

This schizophrenic flower is a very fitting metaphor for suburban life. On the surface it can be the image of perfection. However, as so many recent events have shown us it can be far from it.

Do not misunderstand, this movie is not meant to depress the viewer. Lester's final moments are much like Tolstoy's character Ivan Illyich's in the Death of Ivan Illyich. Ivan's peace came after three days of tortuous pain. Finally, while his son was trying to console him Ivan's

hand fell on the boy's head. The boy grasped it, pressed it to his lips, and began to cry. At that very moment Ivan fell through and saw the light, and it was revealed to him that his life had not been what it should have but that he could still rectify the situation...Just then he felt someone kissing his hand. He opened his eyes and looked at his son. He grieved for him.

At that moment Ivan realized truly realized his own selfishness and what HE had missed out of as a result of it; the love of his family.

Lester's last moments paralleled Ivan's. Lester's moment of clarity comes when he finds his daughter is in love and he really thinks about what were the truly great moments in his life. In this last instant he realizes that it wasn't just sex, drugs, or the freedom of youth but it was the love he had experienced throughout his life.

Perhaps, Lao Tsu put the moral most succinctly when he wrote, "the whole world recognizes the beautiful, yet this is only the ugly; the whole world recognizes the good as the good, yet this is only the bad." Roses are always praised for their exquisite beauty. But spending so much time coveting and recognizing the rose's appearance can distract one from seeing the beauty that everything possesses.

John McLaughlin

American Beauty starring Kevin Spacey and Annette Bening opens Oct. 1, 1999

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THE EROSION OF COLORADO DRIVING

OK I know we native Coloradoans have always complained about how Texans, Californians, and other no-snow-out-of-staters cannot drive in Colorado conditions. We have held ourselves a little above other drivers because we deal with snow, sleet and ice. Sure we are better at winter driving, but lately we have turned our roads into in impolite and rushed race to get a second or two ahead of the pack. Now I am not sure if we natives can blame this increase in driving crappiness on the increase in out-of-staters who are invading our beautiful state. There is a fair share of Colorado license plates I see driving with no courtesy of their road sharing neighbors. If you don't know what I am talking about, let me explain. I'm talking about the need for speed. Sure I like to drive fast to and I have somewhere to get to as well, but the need to get ahead by weaving in an out between cars, riding tails and passing on the right without even letting the person get over first is what I call discourteous driving. Today, while I was on my way to Fort Collins, this purple BMW drove like he/she had a birthing woman in the front seat and had missed the last hospital exit. The car looked like it was being towed by the car in front of it, there was about five inches of space for the guy to stop if traffic became chaotic. Well then the guy in front of the BMW tried a little 'road rage' to get the purple magnet off his tail: he braked, hard. This action caused the speedy little BMW to slam on his brakes and the domino effect began. A few seconds later, after my basket-full of dirty laundry had been

catapulted to from the back seat to the front, the fiasco was over. All because the BMW couldn't wait a minute or two for the guy in front of him to pass the car on the right and move over. What was even more incredible was that when the front car finally had a chance to change lanes, the BMW swerved into the right lane and passed illegally. There wasn't enough time for the front guy to even put his stupid blinkers on. What a punk.

It seems that in the last few years, driving in Colorado has become more outrageous. I mean, I really don't remember people driving like this even just five years back. But, it isn't all the speeders faults either. You see, on a regular basis, the left lane full of people traveling at the same speed for miles, with the right lane completely empty. Then the person who is traveling just above the speed limit, or sometimes at the speed limit, has to pass all the lazy I-can't-move-over into-the-right-lane-because-people-might-pass-me cars on the right. This is really annoying. Sometimes when I am behind the non-mover-overs I wonder what reaction I will get if I honk or wave my hand to motion them over. I mean here in the US, people get shot for that kind of thing. But, what good is your horn if you can't use it when you need it. I mean if someone was about to run into me I would honk. Why is it such an offense to honk if you're in my way and you're not going the speed limit in the left lane. Geez, move over already!

Soon the police will be to put up those wonderful signs that say: 55 mph left lane minimum. I love those signs. Yeah, slow pokes, move the hell over! I guess that is my biggest gripe: I hate passing people in the right lane. When I am waiting patiently for a non-mover-over to get the heck over to the right lane and someone whizzes by on my right, its like, come on man, help me get these people back into the lane they belong. If every one tolerates the slow movement in the left lane, every one will be passing on the right after awhile and then...I don't know, bad things will happen, I guess. Maybe that's the answer: a revolution in driving etiquette. From now on, everyone should pass on the right and that way the lazy drivers don't have to turn their blinkers on and move over.

the Tonic Queen

YOU DON'T NEED AN AIRPLANE TO GO TO JAPAN

Those are the words that accidentally spouted out of my mouth while at a meeting with Dr. Theodore Bickart. Always shrewd but kind, Dr. Bickart granted Mike Thornbrue, Misty Haisfield and myself, an audience to plead our cause.

Our language arts department needs a laboratory. Other university language arts programs incorporate laboratories which students can get reinforcement and experience with the languages they are trying to master. We all know, especially our non-liberal arts administrators, that laboratory time can profoundly drive home the intended applications of our lectures.

Why are we so passionate about our division of Liberal Arts and International Studies, which houses foreign language courses? After our meeting with Dr. Bickart, I feel that I can better articulate an answer to that question. Language studies, good for our "right brain" development and critical to the production of well-rounded graduates, are needed here at the Colorado School of Mines for better communication with our ever closer foreign engineers, companies and partners. The right brain can be taught any-

where. Study literature, practice Tai chi, or sing a song. Engineers today need to consider a foreign language in order to traverse their trade. Our world is no longer just a globe but a cluster of interconnected efforts still often missing efficient and effective communications. Teaching our future engineers to effectively articulate their trade is one of the Colorado School of Mines priorities. It is for the pragmatic and not simply eclecticism that we seek a stronger foreign language program, which is currently staffed exclusively by adjuncts.

I cite another perspective. By providing us with words, languages provide us too with the concepts those words express. What else are words for if not to mean something? As a result, language continues to play a substantial role in shaping the way we look at and filter our world. To know something about someone's language is to know something about how and why they perceive our world in the way that they do. Advancing our cultural and conceptual skills advances our communication and comprehension skills.

I hope you will not infer that I believe our administration could do anything less than the finest job of managing our education. On the contrary, I am impressed. I simply wish to show our passion and stimulate your interest and understanding. Please be alert to the fact that strong language skills can only improve our value as engineers.

Faisal Hashem

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LETTERS TO THE EDITOR

Page 10

THURSDAY, SEPTEMBER 23, 1999

The Oredigger

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FINANCIAL WASTE DESTROYING RTD

Dear Editor,

The RTD Board intentionally wastes \$110,000 every single day! Boards of Transportation, Education, the Legislature, and City Councils are entrusted with public funds to care for the basic needs of society. Those funds, extracted from the pockets of the people through taxes are a sacred trust. The public relies on these Boards to spend wisely and well on behalf of the greater good. The public also expects Boards to spend through reason, not whim, and to make the most prudent, thoughtful use of their collected monies.

Because the RTD Board had not made the best use of public funds, in 1988 the Colorado legislature mandated that RTD open up 20 percent of its bus operations to competitive contracting. That decision has saved regional taxpayers \$10 million per year, or a to-

to operate those systems using union drivers. Even under the current system, present union employees would not lose jobs. A grandfather clause would assure their positions until retirement. In the meantime, RTD would get out of the personnel business with drivers and mechanics, eliminate the need for maintenance facilities, and provide the people with the best possible service money can buy.

With the additional annual savings of \$40 million, RTD could have much better Access-A-Ride, service to disabled citizens, provide more buses at greater frequency of service, or even self-fund the \$337 million local match for light rail on the Southeast corridor.

Since 1988, and in spite of the clear evidence that competitive contracting would save taxpayers money, the RTD Boards, including the current Board, have defiantly refused to increase competitive contracting even 1 percent!

However, exasperated with the RTD Board's unwillingness to take positive action for a more cost-effective operation, the Colorado legislature passed HB 99-1030 this year,

mandating an increase in competitive contracting to 35 percent. That leaves 65 percent more to go to fulfill the public trust. Will the current RTD Board now take responsible action to increase competitive contracting? Time will tell.

While the rancor of the past RTD Board has diminished, the unwillingness to safeguard

and maximize the use of the taxpayer money has not. Instead of making decisions that are cost effective for the taxpayers money, and self-funding the light rail with the savings, the Board is now asking taxpayers to trust them even further with a grandiose plan using borrowed money and interest expenses totaling \$779 million. Had the RTD Board acted responsibly in the past, this borrowing and interest expense would be unnecessary.

Before extending further fiscal trust in this Board to fund light rail, taxpayers must consider the fiscal deceit the current Board has played on the public.

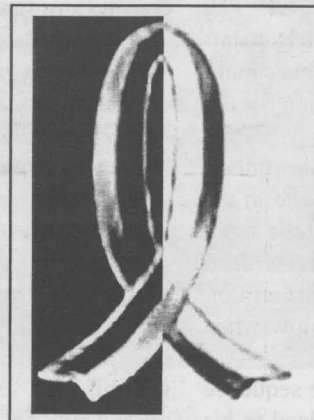
Dick Sargent, Director of the Regional Transportation District (RTD) Since Jan. 1999

COLUMBINE REFLECTION

Dear Editor,

How can you sum up a tragedy? The magnitude of the Columbine shooting will most likely not be known for many years. However, having some personal experience with the situation, I will attempt this task anyway.

Of all the things that were lost this past spring, perhaps trust is the worst one. I am not trying to downgrade the loss of the families and friends of those who lost their life. However, the community around Columbine has always been a peaceful, loving community. After being brought up there I still need to remind myself to lock the doors, because that was never necessary. That trust is now severely hampered. Only time can build that back. Everybody wants to go back to the way it was. But now the



idea that it really can happen to us just won't go away.

With the staggering loss of trust, perhaps the only silver lining is hope. It is just unfortunate that a tragedy has to bring it out. But maybe that is the lesson in all of this. Perhaps the lesson here is that we need to seek out the hope, love, and caring in our

communities before this happens. Maybe that is the only way to prevent something like this, if there is any way at all to prevent it. This tragedy has made my family realize the importance of each other, and of our friends. We learned that maybe getting caught up in the details of life isn't so important. We learned that just maybe five extra minutes with somebody you love really is important, and so is smiling to strangers. Hopefully, other communities, other families, and

any other group can learn that love can never be overdone. Hopefully you can too.

Darick La Salle

LAIS RESPONDS TO STUDENT'S COMPLAINTS

Dear Editor,

Justin Gregg's op/ed piece ("Back for Nothin") in the Sept. 2, 1999 *Oredigger* complains that LAIS would not give him credit for his travels in Europe this past summer. We have not given him credit for a very simple reason: he never registered for the Independent Study credit that we recommended, much less completed and handed in a report describing what he learned in his travels. (The McBride students—to whom Mr. Gregg compares himself—had to do much more than that to earn their credits for this summer's trip to China, by the way.) So, yes, Mr. Gregg now must take a course and do a lot of work that he could have easily avoided if he'd followed through on the recommendations of the LAIS faculty with whom he met last spring. He doesn't deserve any sympathy from the CSM students who earn their credits by working hard in all their classes, including LAIS courses, rather than whining about how mean the faculty are.

Karen B. Wiley, LAIS Undergraduate Advisor

BACK FOR NOTHIN' AGAIN

Dear Editor,

The LAIS department never seems to miss an opportunity to proclaim their incompetence. Dr. Wiley's response to my original article concerning LAIS credit for traveling seems to be their latest avowal. I guess I just wasn't clear in stating that taking another LAIS class isn't

nearly as much work as trying to earn travel credit (even though most student readers grasped that absolutely blaring subtly).

Obviously Dr. Wiley has my experience confused with the way things are supposed to work. I wish I could join Karen in the little reality that she has created for herself. In this reality, the education of students comes *first*, and the systems set up at CSM to accommodate edification *work*. However, back in the real world, these systems utterly fell apart for me. I didn't enroll in the "recommended" independent study because I was unable to find a willing advisor for such a course. I asked five LAIS professors to perform such a roll (which involves signing two whole forms and reading a short report). The excuses varied, but the answers all meant that I would not be allowed to enroll in an independent study. Now, as far as I know, turning in work for a class in which one isn't enrolled doesn't do much good. If Karen Wiley is willing to review a summary of my travels, I'll be glad to produce one to her liking.

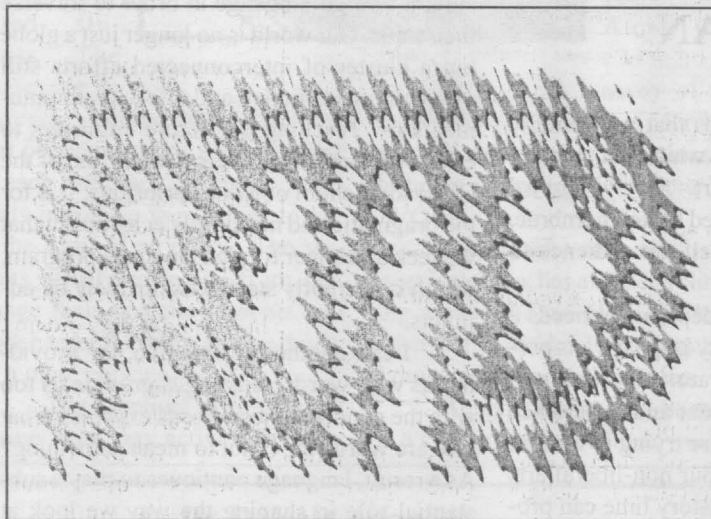
My original article wasn't a ploy for pity from other students, or a desperate cry for attention as Dr. Wiley states. It was purely intended for informational purposes. I am trying to show others the faults in the system. The LAIS department claims they are very open with the credit they award for worldly experiences. I invite students to attempt to earn credit for their travels whether abroad or domestic, thousands of miles or just next door. I'm certain each one will be treated with courtesy and respect, and, unlike me, they will receive credit.

I do not bring this up again in an effort to attain credit; I'm going to school for that

purpose. I only wish to point out the differences that exist within the LAIS department in regards to student classification. I learned as much as any other traveler, and would like to be treated as others have been. This is just a component of the class struggle in which we are involved. Somehow I doubt this was Dr. Bickart's intention when he said he wanted every CSM graduate

to have international experience and influence.

Justin Gregg, Physics



tal of \$110 million.

With this clear evidence of fiscal improvement, a logical question might be that if 20 percent saves \$110 million, why doesn't RTD competitively contract out the remaining 80 percent and save taxpayers an additional \$40 million per year? \$40 million per year translates to \$110,000 every day, 365 days a year.

Perhaps RTD Board members have thought that competitive contracting would necessarily exclude union employees. Not so. Competitive contracting is not anti-union. For example, in Charleston, SC; Las Vegas, NV; Phoenix; and San Diego, RTD contractor ATC/Vancom competes for and wins the bids



McBride honor students really know how to pack lightly for every adventure.

Vocal Students Can Distort Professor Ratings

Every semester, students are given at least one chance to tell professors what works and doesn't work in their classes. Some say it is the students' chance to grade the professor. The comments made in that week or two before finals is supposed to be a teacher's chance to improve their teaching for the next round of thoughtful little scholars. Unfortunately, students sometimes squander, or even worse, misuse this opportunity.

From time to time, the vocal minority in a class can skew the reactions of everyone else. In every class there is a vocal minority that constantly asks most of the questions, makes comments, or leads the class participation. Outside of class these people are usually still very vocal about their opinions. These people have a large amount of control over the morale and attitudes of the other students.

Much of the students' control comes from their ability to polarize class opinion, meaning they have the power to make someone that was just not very excited about doing a project really think it is a complete waste of time. Or they can make the same person feel like it might be slightly fun. For example, here are two scenarios:

1st Scenario (Evil Polarization):

Neils: What are you up to this weekend Maxwell?

Maxwell: I have to draw a strat column for this core I studied in lab and then do a write up. But on Saturday, I'm going to a party at Issac's house.

Neils: Those strat columns really suck. I can't believe that we even have to do those! What does that have to do with engineering?

Maxwell: Yeah, I hear ya! Strat columns are worthless.

Neils succeeded in totally psyching out his classmate, Maxwell. Furthermore, by articulating his pessimism, Neils succeeded in making himself dread the work more, too. Later, while Maxwell and Neils are completing their assignments, the words "strat columns suck" circled through their little minds making every movement of their pen tortuous and aggravating. Then, to make conversation at Issac's party, Neils and Maxwell just talk about how much they don't like their class. By Monday evil Neils and Maxwell are convinced they hate the class and will soon convince others.

2nd Scenario (Good Polarization):

Neils: What are you up to this weekend Maxwell?

Maxwell: I have to draw a strat column for this core I studied in lab and then do a write up. But on Saturday, I'm going to a party at Issac's house.

Neils: I'm looking forward to getting my hands dirty with this strat stuff. I know that it is one of those things that if I don't learn it now I'll be trying to teach to myself later.

Maxwell: Yeah, I hear ya! Strat columns are kinda fun. You get to draw a little bit, maybe take a liberty here and there-it is a little more open ended than some equations.

Neils and Maxwell just pumped each other up. While working on the assignment each one kept thinking about applications for their strat columns in industry. At the party they even found themselves trying to impress Issac's friends from Boulder with their extensive and interesting knowledge of how hurricanes, like Floyd, can cause noticeable changes in some stratification patterns. By

Rating Guide is a Useless Thanks to Politics

If you were planing to contract a person to build your future house would you use a guide that has only one-third of your area's contractors in it? Would you use a guide that contained contractors of various disciplines that you may not need?

We have all come to the Colorado School of Mines to contract a home for the future, and we have been handed such a guide.

lished. This is not the Professor Rating Guide's only fault. Containing many classes that the majority of students here will not take, the guide falls short again. An example, found within the pages of the Fall 1998 Guide is Prof. DeSanto of the Mathematics Department. Prof. DeSanto scored very well with an "A-" in MACS 514, Applied Mathematics. Since only about six students enroll in the class, I, as well as many others, will not be seeing Prof. DeSanto's exemplary job in MACS 514.

We pay a lot of money to come here and build our houses. We pay for a tool that tells us about people we may hire to help us

construct this house. We have thrown this money away. If the rating guide is to be published again, we should see it as a tool. As a tool for the students, the guide must be useful to the populous of CSM, not the six people that plan to take DeSanto's wonderful applied mathematics class. If the guide is not utilized in a manner beneficial to the students, then it should be discontinued. I hope that this is not the case.

To be fully utilized this guide needs to contain fewer graduate-level and McBride classes, and more core classes. Really, this guide should contain the current student rating on every class that is offered at Mines. By doing this, you have made a tool that everyone has a use for. Some of the static that was encountered with the first Professor Rating Guide is the stigma that it would be a student's black book. This is not the case. The guide is a tool for students so that they may optimize their Mines learning experience.

Those who call this a black book, or those that speak out against a comprehensive Professor Rating Guide are those that are afraid to be seen in it. There is good reason to fear the publishing of one's faults; however, this rating guide will not be the first documentation of these faults. Students know there is a complete listing of the ratings available in the library, and if they did not, they do now.

I am currently a

Junior, and my house is nearly built. I look back at my time here and wish that I had a guide that described Professors that I would soon encounter. I wish that I could have known about the ratings so that I could see what professors would best suite my learning needs. I can do nothing about this now, except express to the faculty the great use this guide presents to students. This guide is something that the students need and deserve. We pay a lot of money to build our houses here, and in turn, we expect the best contractors this school has to offer. This guide is the only way to know that we are getting our money's worth.

Mark Hamilton, bacan2@hotmail.com

Geology and Geological Engineering		
GE571: Adv Engr Geol (Lect/Lab)		
		Higgins, Jerry Enrolled: 10 Participated: 8
WORK	Work rqd for amt of credit is too much	3.00
	Assignments are relevant	4.83
	Exams cover important material	3.50
	Grading is fair	4.67
INSTRUCTOR	Course material is well presented	5.00
	Complex material is well presented	4.83
	Assignments are well explained	4.67
	Instructor is very demanding	3.67
	Instructor is accessible	5.00
	Instructor attends regularly	4.67
	Instructor returns assignments promptly	3.33
	Instructor facilitated learning	4.83
	Instructor knows the course material	4.83
	Overall Grade	A
GE598: Ind Minerals Geology (Lect)		
		Holmes, David Enrolled: 9 Participated: 5
WORK	Work rqd for amt of credit is too much	2.80
	Assignments are relevant	4.80
	Exams cover important material	4.60
	Grading is fair	4.80
INSTRUCTOR	Course material is well presented	4.80
	Complex material is well presented	4.20
	Assignments are well explained	4.00
	Instructor is very demanding	3.40
	Instructor is accessible	3.80
	Instructor attends regularly	4.80
	Instructor returns assignments promptly	4.20
	Instructor facilitated learning	4.80
	Instructor knows the course material	4.80
	Overall Grade	A-
GE598: Minerlgy & Crystal Chem (Lect/Lab)		
		HarrisonWendlandt Enrolled: 7 Participated: 3
WORK	Work rqd for amt of credit is too much	3.67
	Assignments are relevant	4.67
	Exams cover important material	4.67
	Grading is fair	4.33
INSTRUCTOR	Course material is well presented	4.67
	Complex material is well presented	4.67
	Assignments are well explained	4.33
	Instructor is very demanding	2.33
	Instructor is accessible	5.00
	Instructor attends regularly	4.67
	Instructor returns assignments promptly	4.33
	Instructor facilitated learning	4.67
	Instructor knows the course material	4.67
	Overall Grade	A
GE611: Advanced Stratigraphy (Lect)		
		Cross, Timothy Enrolled: 8 Participated: 7
WORK	Work rqd for amt of credit is too much	3.00
	Assignments are relevant	4.86
	Exams cover important material	4.00
	Grading is fair	4.29
INSTRUCTOR	Course material is well presented	4.43
	Complex material is well presented	4.71
	Assignments are well explained	4.14
	Instructor is very demanding	3.29
	Instructor is accessible	4.43
	Instructor attends regularly	4.83
	Instructor returns assignments promptly	4.29
	Instructor facilitated learning	4.57
	Instructor knows the course material	5.00
	Overall Grade	A

1 = Strongly Disagree 2 = Disagree 3 = Neutral 4 = Agree 5 = Strongly Agree

Student Evaluation Results 19

Page of the elusive rating guide. Notice all gradute courses and all A ratings. Freshman do you find this helpful?

Monday, Maxwell and Neils decided that they love the class and they will soon convince others.

These two scenarios are a little exaggerated, but they illustrate the power that students have over each other's opinions. If two people discuss something they agree about for long enough, they will tend to strengthen each other's beliefs, sometimes far past reality (the Branch Davidians, Keyensians, and Trexies for instance). So next time someone says _____ sucks and you are about to agree with them, think before you speak. Do you really think it sucks or are you just getting swept up in the wave of popular opinion?

John McLaughlin

When I first heard of plans for a Professor Rating Guide I was delighted. However, when I saw the final product, my delight soured. The Professor Rating Guide has the potential to be an invaluable guide to the students of this school. The guide could be a singular definitive answer book to the questions that we have about the teaching faculty. Imprisoned in a sea of bureaucracy, and politics, the guide fell short of this purpose.

The Professor Rating Guide's shackles-a lack of pertinent information, caused by expected tension among CSM professors and administration. The guide only contains the top one-third of the professors that teach at this school. I guess we are left to assume that the bottom two-thirds were not fit to be pub-

Miner Notes

APO

APO meets in Coolbaugh 209 on Tuesdays at 6:15 PM. For more information, contact Ian Nickerson at inickers@mines.edu

Bridge Club

If you would like to play cards and want something more interesting than hearts or spades, why not try bridge? The CSM Bridge Club meets every Tuesday at 7 PM in the Coolbaugh atrium. Player of all skill levels are welcome. Don't know how to play? We gladly offer lessons for new players.

Campus Crusade for Christ

All are welcome to join us, Thursday 7:07 PM at First Baptist Church in Golden located on the corner of 19th and Washington. Afterwards, we will be going to the Golden Grind. For more information contact mstanber@mines.edu. Campus Crusade will probably be meeting in the I-Club by next month.

Catholic Newman Group

Anyone is welcome! A discussion group for contemporary issues. Every Tuesday night at 8:30 pm; 2nd floor of the Green Center in the Ted Adams Room. Contact Matt at 303-271-0654 or mlengeri@mines.edu for more information.

Circle K

Come find out about the world's largest student run service organization. Meetings are held Tuesdays, 6 PM at the Student Center in room 236. For more information contact clapok@mines.edu

CSM Concert Choir

The CSM Choir is open to everyone!! Come sing jazz, classical, and contemporary pieces with us every Thursday from 4-6 pm in CO 209. Questions call Matt at 303-271-0654 or email mlengeri@mines.edu.

E-Days

E-Days 2000 is coming. As your organization begins to plan its new year, start planning to help with E-Days 2000!!! Meetings will be held on the following dates to help organizations figure out how and what they can do! November 16, January 11, February 8, March 7, March 28, and April 4. Questions? Contact Jessica Jordet 202-273-9797 or jjordet@mines.edu

FCA

The Fellowship of Christian Athletes meets Wednesdays at 7:30

PM in the Projection Room on the second floor of Volk Gymnasium. All are welcome: Christians, athletes, both, or neither. For more information email fbuckner@mines.edu.

FCC

Fellowship of Christian Cowboys (and girls), the 1996-97 New Club of the Year, meets weekly on Thursday at 6 information, email derjacks@mines.edu or visit the website. http://www.mines.edu/Stu_life/organ/fcc.

Karate Club

CSM Karate Club has a new schedule! Monday and Wednesday from 6:30-8:00 PM in the Student Center Ballrooms.

Karate is a tremendous way to stay in great physical shape, tune mental concentration skills and gain confidence about personal security. Spectators and new students are welcome anytime. For more information call Amir at 303-216-2183 or email achaghaj@mines.edu.

Kayak Club

Kayak Club holds pool sessions every Monday from 7:30-9:30 PM. Everyone is welcome from beginners to advanced. For additional information, contact Jason at (303) 273-0507 or email jlegore@mines.edu.

Kendo Club

The CSM Kendo Club will meet Wednesday evenings, 7-9pm, in the Student Center ballrooms.

Kendo is the ancient art of Japanese fencing that evolved from the life and practice the the Samurai warrior. New students and spectators are welcome anytime. For more information call Sensei King at 303-795-9040 or email fourrex@aol.com.

Lacrosse Team

For everyone interested in playing competitive lacrosse, sign-ups for the CSM Lacrosse Team will be held at the CSM Lacrosse booth at Celebration of Mines on September 3.

All skill levels welcome. For more information check out the Lacrosse web-site on the CSM home page under club sports.

Prospector

Interested in being a member of Mines Yearbook Staff? Class meets Wednesdays at 12 pm in BH 126. Anyone interested may apply and no experience is required.

Call (303) 273-3356 for more information.

SCA

Fighter Practice: Tuesdays 7-9 PM in the Field House. Questions? Contact David at (303) 215-6243 or dclement@mines.edu.

SME Kickoff Barbecue

Everyone is invited to the SME Annual Kickoff Barbecue September 30th at 6 pm on the west side of the Brown Building. Free food and drink for everyone (Bring ID)!

Sober Drivers

Need a ride home on Friday or Saturday night between 9 PM and 3 AM? Call Kappa Sigma Sober Driver Program at (303) 279-9951. You must be within 15 minutes of campus.

Society of Women Engineers

The next SWE meeting is on September 29, at noon in Coolbaugh 209. Karen Ross will be speaking about her career in Technical Sales. For more info, email aama@mines.edu

UFO

The Ultimate Frisbee Organization is holding practices in Kafadar commons every Tuesday and Wednesday at 4-5:30 PM. All are welcome to come practice with us for competitive play against other schools. Also, official UFO CSM frisbees are available for \$8. For more information contact Steve at (303) 271-9972 or sgrigel@mines.edu.

Women's Ultimate Frisbee Team

Want to have fun, make friends, and get in shape? Come be a part of Mines first ever Women's Ultimate Frisbee Team. No experience is required. First meeting Thursday, September 9, at 5:30 pm at Kafadar Commons. For more information call Julie West at 303-278-7431.

Placing a Miner Note

The easiest way for the student body to see your upcoming meeting or event is to place a Miner Note.

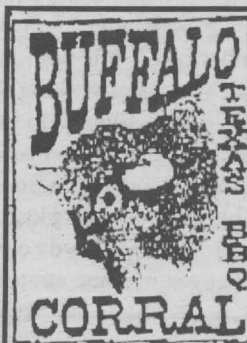
Please submit all Miner Notes by email or hard copy the Friday before publication. There is no charge for the service.

COLORADO SCHOOL OF MINES

MAC
MINES ACTIVITIES COUNCIL

Friday Afternoon Club

September 24	Peter Berman
October 29	Scott Faulconbridge
November 5	Mike Siegel
November 19	Michael Loftus
December 3	Donald Barnhart
December 9	Owen Smith



Buffalo Corral

Restaurant and Lounge
830 Lookout Mnt. Rd.

Golden, Colorado

303-526-5583

Mesquite Texas BBQ

Bronco Happy Hour

Big Screen TV

"MAD" Biker Engineers Take Over Golden

Mines Madness '99. The time has come again for the bike racers from Mines to take over a part of Golden for a few hours. The Mines Madness Bike Race is coming up quickly. The schedule is listed below:

Friday, September 24th

2-5 pm Registration,

Location: Self-Propulsion

Bike Shop

6:30 pm Dual Slalom Race,

Location: Thunder Valley (C-470 & I-70)

Saturday, September 25th

7:00 am Table Mountain Inn

Bike Race

Location: Downtown Golden

1:00 pm The Alfalfa's Cross

Country Race

Location: Bear Creek Lake

Park (Morrison Rd. & C-470)

Following Race there is a Racers banquet to be held at Kafadar Commons.

Registraton for the event is \$48, but after September 10th that fee increases to \$55. Visit www.mines.edu/Stu_life/projects/madness for information and registration. For questions contact Ben Telesca 303-384-2273.

Scholarship

NBPA (National Beverage Packagers Association) Scholarship for the Fall semester. Qualifications are Junior/Senior Level Mechanical or Electrical Engineering Majors with a 3.0 grade point average or better. Applicants should have an interest in the packaging industry, and there is opportunity for internships/full time employment with member company's. For applications, see Jane Cowden in the financial aid office. Deadline is October 13th, turn applications in at Financial Aid Office c/o Jane Cowden. Each scholarship is \$1,000.

MAC Special Event

Snowboarding Expo September 30, 12-4 pm I-M Fields.

CLASSIFIED ADS

Bartending JOBS are in Demand. The fun jobs. Earn \$15-30/hr. Job placement assistance. Call Now!!! \$199 Back-to-School Special ends soon. Call 303-758-5000 or 1-800-BARTEND

Browse icpt.com WIN a FREE trip for Springbreak "2000". ALL destinations offered. Trip Participants, Student Orgs & Campus Sales Reps wanted. Fabulous parties, hotels & prices. For reservations or Rep registration. Call Inter-Campus Programs 800-327-6013.

Help wanted. Hiring all positions. Very flexible hours. Apply in person at Hampton's Deli/Restaurant. 1528 Washington St. Golden. Great work environment. Free meals.

For Sale. DJ Audio and Lighting Equipment for sale. Goto <http://users.50megs.com/rifraf/> for a price list. Discounts for mines students.

Do you need a new computer? If you are in need of a brand new Dell PC (complete with monitor), please call Jim at (303)278-6263

For Sale. Alpine box with 2-12 inch woofers. Clairon car cd player (1 year old) with detachable face. 40 watt amp. Button down six Yakima ski rack attachment. Extra large outdoor research gortex gators. Contact John at 303-679-0849 or bacan2@hotmail.com.

Please submit all classified adds the Friday before publication. Cost \$3.00 for 25 words. Multiple week notices are available. Space is on a first-come first-served basis.

Homecoming Meeting

Come Join in the fun and help prepare for Homecoming. Meetings held every tuesday at 5:30 in the student center ball-rooms